

1600 °C



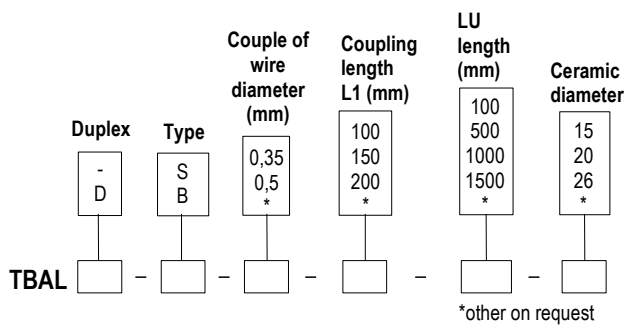
**Thermocouple S or B sensor
for high temperature
with ceramic protection**

TBAL S / TBALD S

- Thermocouple S or B.
- Measuring range: up to +1600 °C.
- Mounting with alumina sheath

PART NUMBERS

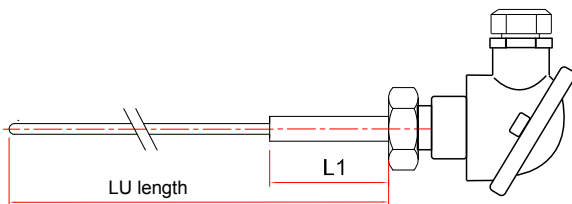
To order, just add the codes to complete the part number.



Example: TBAL-S-35-100-500-15

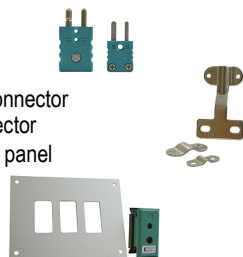
Model: Thermocouple type S, with a couple of wire of 0.35 mm Ø. Contact tip diameter 15 mm with coupling of 100 mm length and ceramic of 400 mm length. LU is 500 mm.

DIMENSIONS



ACCESSORIES (SEE DATASHEET)

- Extension cable
- Compensating cable
- Standard or miniature connector
- Cable seal for plug and socket connector
- Miniature or standard fixed connector
- Miniature or standard connectors panel
- Extension lead
- Converters



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TECHNICAL FEATURES

Maximum operating temperature	+1600 °C
Accuracy*	± 0,0025 t
Contact tip	Coupling Ø according to ceramic sheath (customized length) Pure APF 710 sintered alumina sheath Customized Ø according to application Couple of wires 0.35 or 0.5 mm Ø
Connection head	Aluminium alloy (120 °C max.) Steel cable gland: M20 x 150 IP 54 protection
Storage temperature	From -20 °C to +80 °C

TOLERANCES* OF THE PROBE

As per IEC 584-3 norm

TC	Measuring range Class1	Tolerance
S	From 0 °C to +1600 °C	From 0 to +1100 °C ± 1 °C From 1100 °C to 1600 °C ± (1+0.003*(T°-1100))
B	From 0 °C to +1700 °C	From 600 °C to 1700 °C ± 0.0025 x T° abs

* Performed in laboratory conditions, the above accuracies mentioned in this document will be guaranteed, provided that you use the calibration compensation data or identical calibration conditions.

MOST COMMON THERMOCOUPLE TYPES

Thermocouple type	+ conductor	- conductor	Color of compensating cable
S	Platinum- Rhodium 10%	Platinum	Ext. color + = orange, - = white
B	Platinum- Rhodium 30%	Platinum- Rhodium 6%	Ext color + = grey, - = white

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